

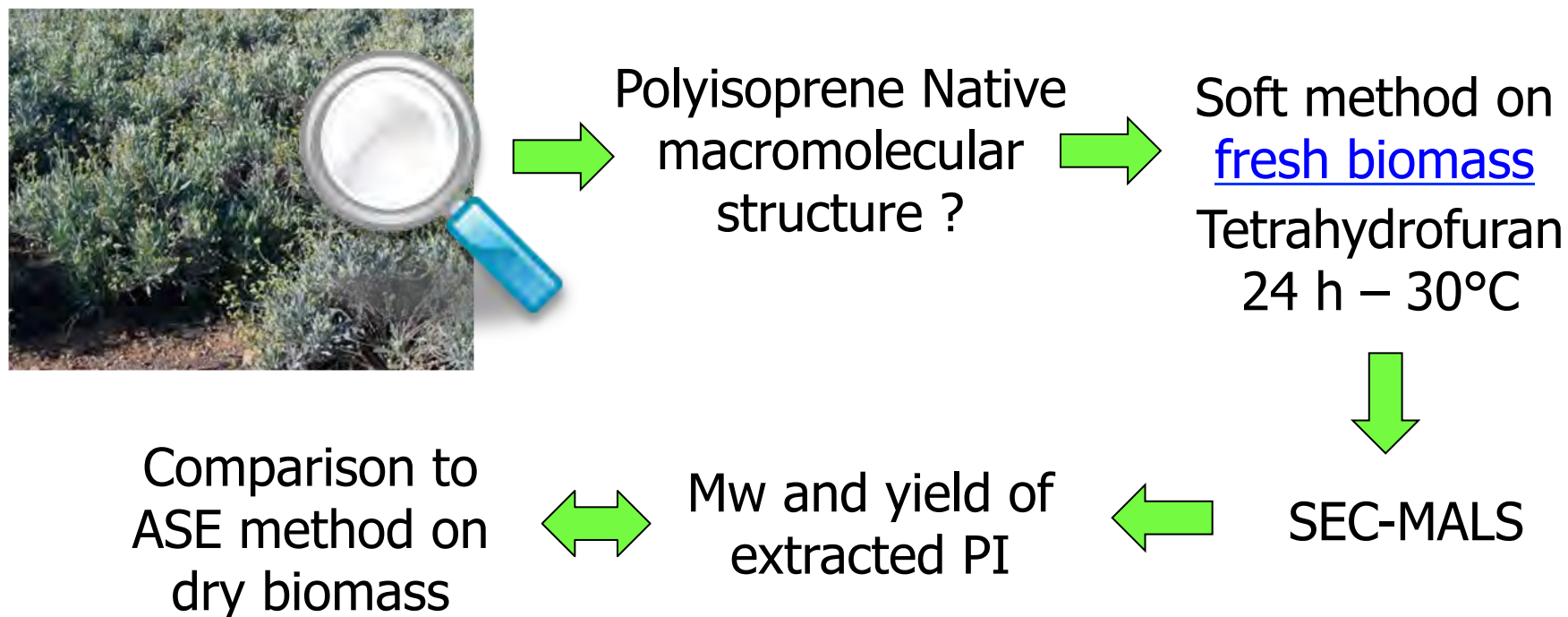
New method to extract polyisoprene in Guayule without macromolecular structure degradation

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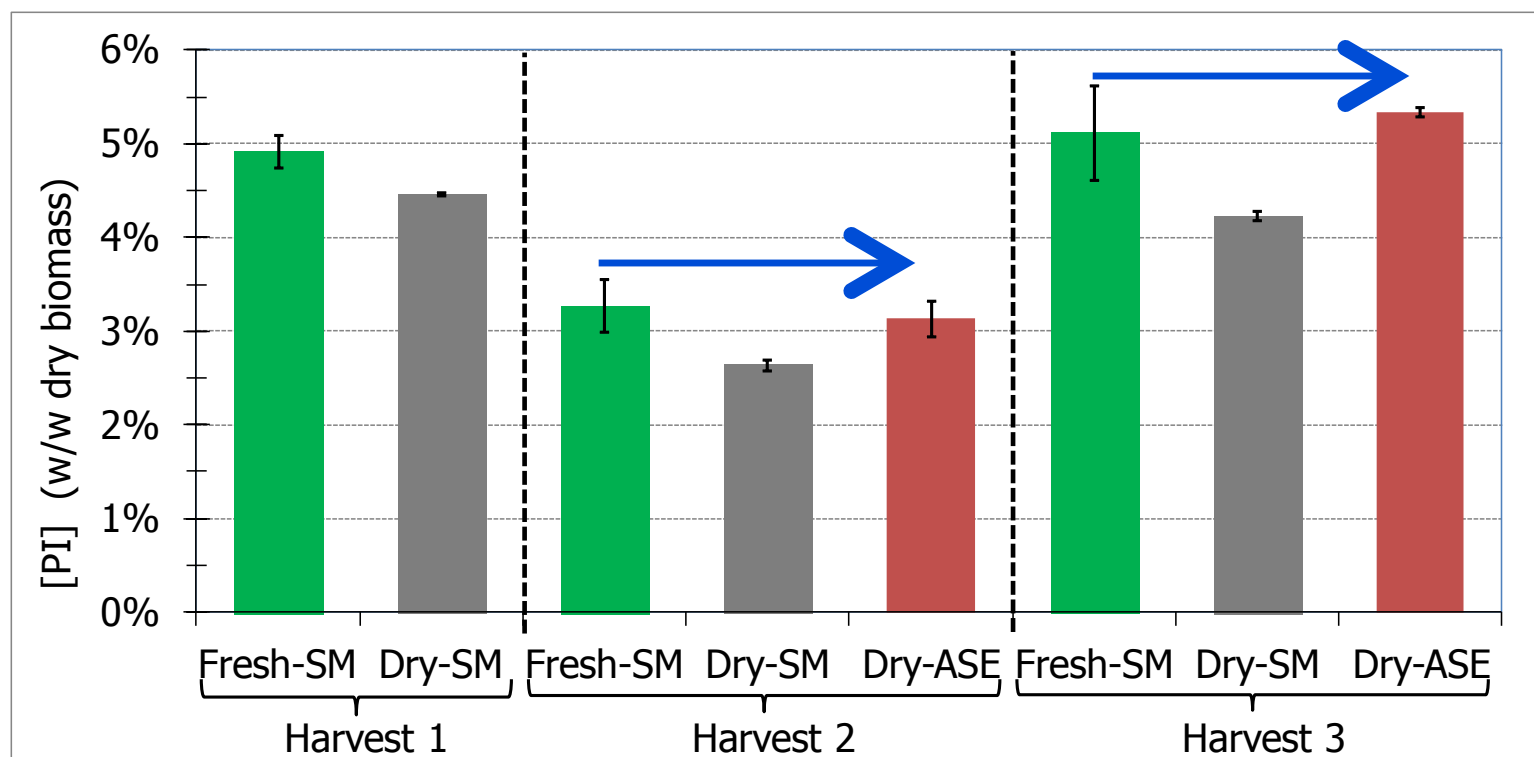
- 1: CIRAD-UR 40**
- 2: Prince of Songkla University,**
- 3: CIRAD-UMR IATE**

Why to develop a new method for PI extraction ?



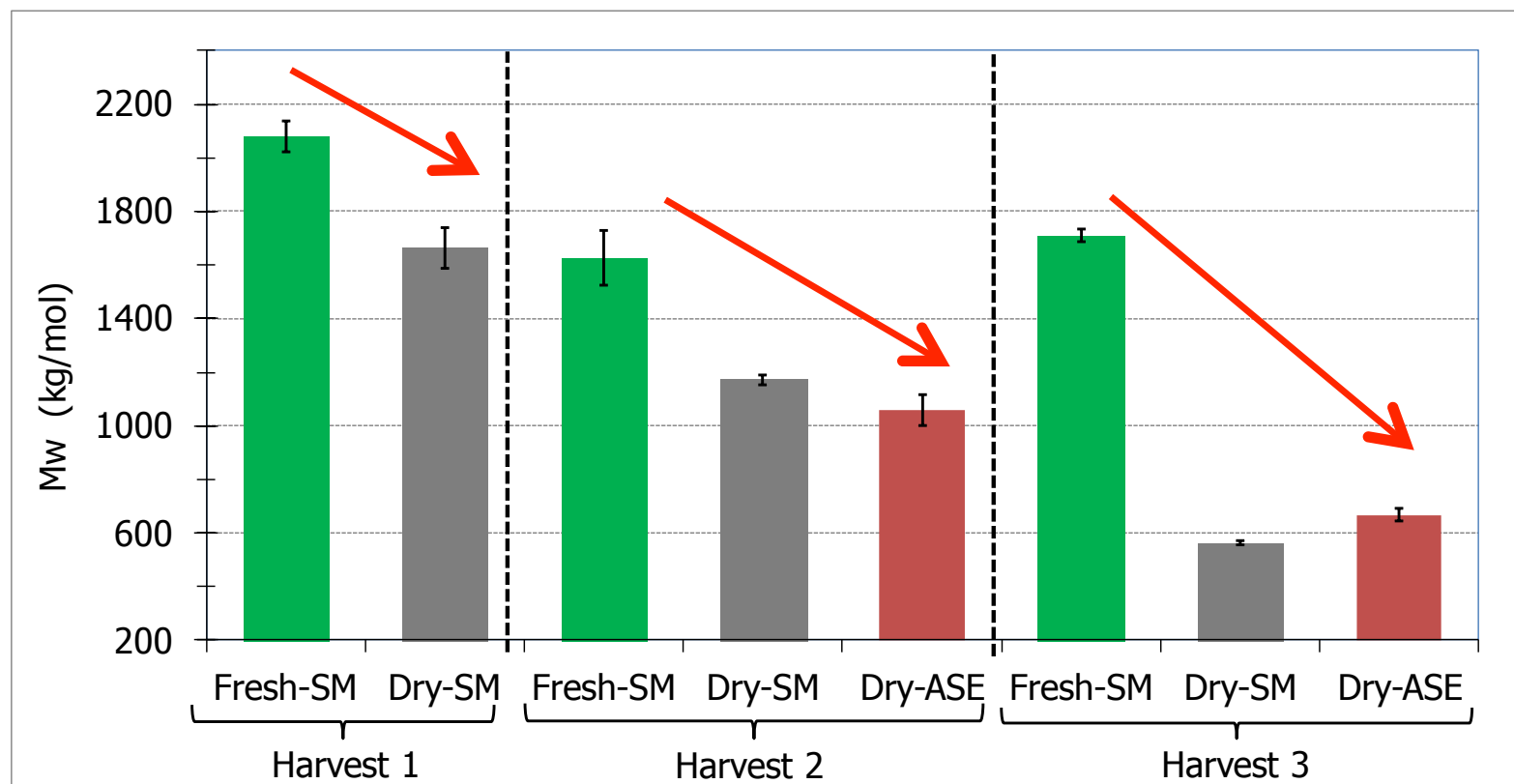
Yield of extracted PI according the extraction method

Fresh-SM: Fresh biomass – soft method / Dry-ASE: dry biomass – ASE method



➤ Same extraction yield between Fresh-SM and Dry-ASE

Mw of extracted PI according the extraction method



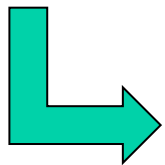
➤ Very high Mw for PI extracted with SM vs ASE



Conclusion



The use of SM is a real advantage allowing the use of fresh biomass (non dried).



To minimize the likelihood of thermal and oxidative degradation of the PI macromolecules during storage and drying.



Thank you for your attention

